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1 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: [pdf\(613.63 KB\)](#)

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[html\(2.78 KB\)](#)

2 Computer human interface: Handheld devices for applications using dynamic multimedia data

Binh Pham, On Wong

June 2004 **Proceedings of the 2nd international conference on Computer graphics and interactive techniques in Australasia and South East Asia**

Full text available: [pdf\(209.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

[html\(2.78 KB\)](#)

Growing demand for ubiquitous and pervasive computing has triggered a sharp rise in handheld device usage. At the same time, dynamic multimedia data has become accepted as core material which many important applications depend on, despite intensive costs in computation and resources. This paper investigates the suitability and constraints of using handheld devices for such applications. We firstly analyse the capabilities and limitations of current models of handheld devices and advanced feature ...

Keywords: collaborative, computer graphics, handheld devices, image processing, multimedia

3 The evolution of Coda

M. Satyanarayanan

May 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 2

Full text available: [pdf\(441.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

[html\(2.78 KB\)](#)

Failure-resilient, scalable, and secure read-write access to shared information by mobile and static users over wireless and wired networks is a fundamental computing challenge. In this article, we describe how the Coda file system has evolved to meet this challenge through the development of mechanisms for server replication, disconnected operation, adaptive use of weak connectivity, isolation-only transactions, translucent caching, and opportunistic exploitation of hardware surrogates. For each ...

Keywords: Adaptation, Linux, UNIX, Windows, caching, conflict resolution, continuous data access, data staging, disaster recovery, disconnected operation, failure, high availability, hoarding, intermittent networks, isolation-only transactions, low-bandwidth networks, mobile computing, optimistic replica control, server replication, translucent cache management, weakly connected operation

4 Fast detection of communication patterns in distributed executions 

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

5 Constraints in data mining: SPARTAN: using constrained models for guaranteed-error semantic compression 

Shivnath Babu, Minos Garofalakis, Rajeev Rastogi

June 2002 **ACM SIGKDD Explorations Newsletter**, Volume 4 Issue 1

Full text available:  pdf(259.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

While a variety of lossy compression schemes have been developed for certain forms of digital data (e.g., images, audio, video), the area of lossy compression techniques for arbitrary data tables has been left relatively unexplored. Nevertheless, such techniques are clearly motivated by the ever-increasing data collection rates of modern enterprises and the need for effective, guaranteed-quality approximate answers to queries over massive relational data sets. In this paper, we propose *SPARTAN* ...

6 Dealing with server corruption in weakly consistent replicated data systems 

Mike J. Spreitzer, Marvin M. Theimer, Karin Petersen, Alan J. Demers, Douglas B. Terry

October 1999 **Wireless Networks**, Volume 5 Issue 5

Full text available:  pdf(180.10 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

7 A methodology for analyzing the performance of authentication protocols 

Alan Harbitter, Daniel A. Menascé

November 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 4

Full text available:  pdf(1.25 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Performance, in terms of user response time and the consumption of processing and communications resources, is an important factor to be considered when designing authentication protocols. The mix of public key and secret key encryption algorithms typically included in these protocols makes it difficult to model performance using conventional analytical methods. In this article, we develop a validated modeling methodology to be used for analyzing authentication protocol features, and we use two ...

Keywords: Authentication, Kerberos, mobile computing, performance modeling, proxy servers, public key cryptography

8 SPARTAN: a model-based semantic compression system for massive data tables

Shivnath Babu, Minos Garofalakis, Rajeev Rastogi

May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2

Full text available: [pdf\(240.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

While a variety of lossy compression schemes have been developed for certain forms of digital data (e.g., images, audio, video), the area of lossy compression techniques for arbitrary data tables has been left relatively unexplored. Nevertheless, such techniques are clearly motivated by the ever-increasing data collection rates of modern enterprises and the need for effective, guaranteed-quality approximate answers to queries over massive relational data sets. In this paper, we propose SPA ...

9 The Roma personal metadata service

Edward Swierk, Emre Kiciman, Nathan C. Williams, Takashi Fukushima, Hideki Yoshida, Vince Laviano, Mary Baker

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Full text available: [pdf\(221.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

People now have available to them a diversity of digital storage facilities, including laptops, cell phone address books, handheld devices, desktop computers and web-based storage services. Unfortunately, as the number of personal data repositories increases, so does the management problem of ensuring that the most up-to-date version of any document in a user's personal file space is available to him on the storage facility he is currently using. We introduce the Roma personal metadata service t ...

Keywords: data synchronization, distributed data storage, distributed databases, metadata, mobile computing, personal systems

10 Evolutionary design of complex software (EDCS) demonstration days 1999

Wayne Stidolph

January 2000 **ACM SIGSOFT Software Engineering Notes**, Volume 25 Issue 1

Full text available: [pdf\(1.90 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This report summarizes the Product/Technology demonstrations given at Defense Advanced Research Projects Agency (DARPA) Evolutionary Design of Complex Software (EDCS) Program Demonstration Days, held 28-29 June 1999 at the Sheraton National Hotel, Arlington, VA.

11 Software engineering for mobility: a roadmap

Gruia-Catalin Roman, Gian Pietro Picco, Amy L. Murphy

May 2000 **Proceedings of the conference on The future of Software engineering**

Full text available: [pdf\(2.07 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 Service discovery in the future for mobile commerce

Dipanjan Chakraborty, Harry Chen

December 2000 **Crossroads**, Volume 7 Issue 2

Full text available: [html\(48.94 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

13 Business-to-business interactions: issues and enabling technologies

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**,

Volume 12 Issue 1

Full text available: [pdf\(558.34 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

14 Mobility: Improving web browsing performance on wireless pdas using thin-client computing

Albert M. Lai, Jason Nieh, Bhagyashree Bohra, Vijayarka Nandikonda, Abhishek P. Surana, Suchita Varshneya

May 2004 **Proceedings of the 13th conference on World Wide Web**

Full text available: [pdf\(433.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web applications are becoming increasingly popular for mobile wireless PDAs. However, web browsing on these systems can be quite slow. An alternative approach is handheld thin-client computing, in which the web browser and associated application logic run on a server, which then sends simple screen updates to the PDA for display. To assess the viability of this thin-client approach, we compare the web browsing performance of thin clients against fat clients that run the web browser locally on a P ...

Keywords: thin-client computing, web performance, wireless and mobility

15 A unified approach for improving QoS and provider revenue in 3G mobile networks

Christoph Lindemann, Marco Lohmann, Axel Thümmler

June 2003 **Mobile Networks and Applications**, Volume 8 Issue 3

Full text available: [pdf\(407.92 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we introduce a unified approach for the adaptive control of 3G mobile networks in order to improve both quality of service (QoS) for mobile subscribers and to increase revenue for service providers. The introduced approach constantly monitors QoS measures as packet loss probability and the current number of active mobile users during operation of the network. Based on the values of the QoS measures just observed, the system parameters of the admission controller and packet schedul ...

Keywords: admission control in mobile system, performance evaluation of next generation mobile systems, pricing and revenue optimization, quality of service in mobile systems

16 Data and Content: Facilitating mobile decision making

Mohamed A. Sharaf, Panos K. Chrysanthis

September 2002 **Proceedings of the 2nd international workshop on Mobile commerce**

Full text available: [pdf\(291.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The wide spread of mobile computing devices is transforming the newly emerged e-business

world into a mobile e-business one, a world in which hand-held computers are the user's front-ends to access enterprise data. For good mobile decision making, users need to count on up-to-date, business-critical data. Such data are typically in the form of summarized information tailored to suit the clients' analysis interests. In this paper, we are addressing the issue of efficient delivery of summary table ...

Keywords: OLAP, broadcast pull, broadcast scheduling, e-commerce, mobile computing, power-aware computing

17 Cooperative buildings—integrating information, organization and architecture

Norbert A. Streitz

November 1998 **Proceedings of the 1998 ACM conference on Computer supported cooperative work**

Full text available: [pdf\(1.89 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



18 Same words, different meanings: are basic IS/IT concepts our self-imposed Tower of Babel?

Steven Alter

May 2000 **Communications of the AIS**

Full text available: [pdf\(349.97 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)



19 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1997 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems**, Volume 28 Issue 1

Full text available: [pdf\(7.24 MB\)](#) Additional Information: [full citation](#), [citations](#)



20 Research contributions: Facilitating localized exploitation and enterprise-wide integration in the use of IT infrastructures: the role of PC/LAN infrastructure standards

Timothy R. Kayworth, V. Sambamurthy

September 2000 **ACM SIGMIS Database**, Volume 31 Issue 4

Full text available: [pdf\(2.61 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Two often-contradictory dilemmas confront firms in their efforts at promoting IT-based innovation: facilitate localized exploitation of the IT infrastructure within individual business units, but also ensure enterprise-wide integration of IT innovation initiatives to facilitate business applications that exploit inter-unit synergies. Therefore, developing an IT infrastructure that is conducive to both localized exploitation and enterprise-wide integration is important. In this context, IT infras ...

Keywords: IS implementation, case study, management information systems, organizational structure, strategic issues

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1 [Web browsing in a wireless environment: disconnected and asynchronous operation in ARTour Web Express](#) 

Henry Chang, Carl Tait, Norman Cohen, Moshe Shapiro, Steve Mastrianni, Rick Floyd, Barron Housel, David Lindquist

September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

Full text available:  [pdf\(1.50 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 [The HiMAT model for mobile agent applications](#) 

Marco Cremonini, Andrea Omicini, Franco Zambonelli

May 1999 **Proceedings of the eighteenth annual ACM symposium on Principles of distributed computing**

Full text available:  [pdf\(117.37 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

3 [StratOSPHERE: mobile processing of distributed objects in Java](#) 

Daniel Wu, Divyakant Agrawal, Amr El Abbadi

October 1998 **Proceedings of the 4th annual ACM/IEEE international conference on Mobile computing and networking**

Full text available:  [pdf\(1.38 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

4 [A workflow data distribution strategy for scalable workflow management systems](#) 

Hans Schuster, Petra Heinl

April 1997 **Proceedings of the 1997 ACM symposium on Applied computing**

Full text available:  [pdf\(363.12 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: data distribution, scalability, workflow

5 [Component migration with enterprise JavaBeans \(poster session\)](#)

Michael Richmond

January 2000 **Addendum to the 2000 proceedings of the conference on Object-oriented programming, systems, languages, and applications (Addendum)**

Full text available: [pdf\(53.02 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



6 Using DHCP with computers that move

Charles E. Perkins, Kevin Luo

March 1995 **Wireless Networks**, Volume 1 Issue 3

Full text available: [pdf\(1.10 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Dynamic Host Configuration Protocol (DHCP) was designed to allow the frequent allocation of resources and configuration information useful to Internet hosts at boot time, including Internet addresses in particular. It turns out that getting a new Internet address is crucial to the problem of enabling the movement of Internet hosts from one network to another, and thus DHCP is quite relevant to the problem of providing seamless, transparent mobility to Internet hosts. We decided to inves ...



7 Information systems frontiers

Jagdish Chandra, Salvatore T. March, Satyen Mukherjee, Will Pape, R. Ramesh, H. Raghav Rao, Ray O. Waddoups

January 2000 **Communications of the ACM**, Volume 43 Issue 1

Full text available: [pdf\(1.70 MB\)](#) [html\(41.07 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



8 Mobile networking in the Internet

Charles E. Perkins

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Full text available: [pdf\(166.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computers capable of attaching to the Internet from many places are likely to grow in popularity until they dominate the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for supporting mobility. This introductory article attempts to outline some of the many promising and interesting research directions. The papers in this special issue indicate the diversity of viewpoints within the research community, and it is ...



9 Dynamic change in office automation: modeling and analysis

Shih-Gong Li, Clarence A. Ellis, Kar Yan Tam

March 1992 **Proceedings of the 1992 ACM/SIGAPP symposium on Applied computing: technological challenges of the 1990's**

Full text available: [pdf\(1.11 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



10 Mobile computing: beyond laptops

Laura Cappelletti

October 1997 **Proceedings of the 15th annual international conference on Computer documentation**

Full text available: [pdf\(406.32 KB\)](#) Additional Information: [full citation](#), [index terms](#)

11 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference f the Centre for Advanced Studies on Collaborative research**Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

12 Transactional workflow paradigm: its application to mobile computing

V. K. Murthy

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**Full text available:  pdf(997.50 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: agents, intention-action protocols, mobile transactions, serializability, workflow

13 Network architecture and traffic transport for integrated wireless communications over enterprise networks

Henry C.B. Chan, Victor C.M. Leung, Robert W. Donaldson

August 1997 **Wireless Networks**, Volume 3 Issue 3Full text available:  pdf(455.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A novel network architecture based on the IEEE 802.6 metropolitan area networks (MAN) is proposed to integrate the wireless and wired segments of a regional enterprise network (REN) within a city. This architecture functions like a distributed switch for all types of services, reducing traffic congestion by sharing the high capacity link dynamically and facilitating signaling, mobility management, call processing and network management through its distributed functions, transport facilities ...

14 Structured reactive controllers: controlling robots that perform everyday activity

Michael Beetz

April 1999 **Proceedings of the third annual conference on Autonomous Agents**Full text available:  pdf(1.12 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**15 Papers: Open signaling for ATM, internet and mobile networks (OPENSIG'98)**

Andrew T. Campbell, Irene Katzela, Kazuho Miki, John Vicente

January 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 1Full text available:  pdf(1.13 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

The ability to rapidly create and deploy new transport, control and management architectures in response to new service demands is a key factor driving the programmable networking community. Competition between service providers may hinge on the speed at which one provider can respond to new market demands over another. The notion of open programmable networks is having broad impact on service providers and vendors across a range of telecommunication sectors calling for major advances in open ne ...

Open Signaling for ATM, INTERNET and Mobile Networks (OPENSIG'98)

Andrew T. Campbell, Irene Katzela, Kazuho Miki, John Vicente

April 1999 **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 2Full text available:  [pdf\(1.11 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The ability to rapidly create and deploy new transport, control and management architectures in response to new service demands is a key factor driving the programmable networking community. Competition between service providers may hinge on the speed at which one provider can respond to new market demands over another. The notion of open programmable networks is having broad impact on service providers and vendors across a range of telecommunication sectors calling for major advances in open ne ...

17 Frameworks for component-based client/server computing

Scott M. Lewandowski

March 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 1Full text available:  [pdf\(243.81 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**18 Workshop on compositional software architectures: workshop report**May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3Full text available:  [pdf\(2.91 MB\)](#) Additional Information: [full citation](#), [index terms](#)**19 Enterprise information architectures—they're finally changing**

Wesley P. Melling

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data**, Volume 23 Issue 2Full text available:  [pdf\(1.28 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Substantive changes in the business environment—and aggressive initiatives in business process reengineering—are driving corresponding changes in the information technology architectures of large enterprises. Those changes are enabled by the convergence of a long list of maturing new technologies. As one of its many implications, the new IT architecture demands revised assumptions about the design and deployment of databases. This paper reviews the components of the architecture ...

20 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1997 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems**, Volume 28 Issue 1Full text available:  [pdf\(7.24 MB\)](#) Additional Information: [full citation](#), [citations](#)

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Result page: [previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [next](#)Relevance scale **21 Software engineering for mobility: a roadmap**

Gruia-Catalin Roman, Gian Pietro Picco, Amy L. Murphy

May 2000 **Proceedings of the conference on The future of Software engineering**Full text available:  [pdf\(2.07 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**22 WebExpress: a client/intercept based system for optimizing Web browsing in a wireless environment**

Barron C. Housel, George Samaras, David B. Lindquist

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4Full text available:  [pdf\(338.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes an application model and software technology that makes it possible to run World Wide Web applications in wide area wireless networks. Web technology in conjunction with today's mobile devices (e.g., laptops, notebooks, personal digital assistants) and the emerging wireless technologies (e.g., digital cellular, packet radio, CDPD) offer the potential for unprecedented access to data and applications by mobile workers. Yet, the limited bandwidth, high latency, high cost, ...

23 Integrated document caching and prefetching in storage hierarchies based on Markov-chain predictions

Achim Kraiss, Gerhard Weikum

August 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 3Full text available:  [pdf\(603.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Large multimedia document archives may hold a major fraction of their data in tertiary storage libraries for cost reasons. This paper develops an integrated approach to the vertical data migration between the tertiary, secondary, and primary storage in that it reconciles speculative prefetching, to mask the high latency of the tertiary storage, with the replacement policy of the document caches at the secondary and primary storage level, and also considers the interaction of these policies with ...

Keyw rds: Caching, Markov chains, Performance, Prefetching, Scheduling, Stochastic modeling, Tertiary storage

24 Papers: Open signaling for ATM, internet and mobile networks (OPENSIG'98)

Andrew T. Campbell, Irene Katzela, Kazuho Miki, John Vicente

January 1999 **ACM SIGCOMM Computer Communications Review**, Volume 29 Issue 1Full text available: [pdf\(1.13 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The ability to rapidly create and deploy new transport, control and management architectures in response to new service demands is a key factor driving the programmable networking community. Competition between service providers may hinge on the speed at which one provider can respond to new market demands over another. The notion of open programmable networks is having broad impact on service providers and vendors across a range of telecommunication sectors calling for major advances in open ne ...

25 Open Signaling for ATM, INTERNET and Mobile Networks (OPENSIG'98)

Andrew T. Campbell, Irene Katzela, Kazuho Miki, John Vicente

April 1999 **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 2Full text available: [pdf\(1.11 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The ability to rapidly create and deploy new transport, control and management architectures in response to new service demands is a key factor driving the programmable networking community. Competition between service providers may hinge on the speed at which one provider can respond to new market demands over another. The notion of open programmable networks is having broad impact on service providers and vendors across a range of telecommunication sectors calling for major advances in open ne ...

26 The IBM data warehouse architecture

Charles Bontempo, George Zagelow

September 1998 **Communications of the ACM**, Volume 41 Issue 9Full text available: [pdf\(817.29 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)**27 Using DHCP with computers that move0**

Charles E. Perkins, Kevin Luo

March 1995 **Wireless Networks**, Volume 1 Issue 3Full text available: [pdf\(1.10 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Dynamic Host Configuration Protocol (DHCP) was designed to allow the frequent allocation of resources and configuration information useful to Internet hosts at boot time, including Internet addresses in particular. It turns out that getting a new Internet address is crucial to the problem of enabling the movement of Internet hosts from one network to another, and thus DHCP is quite relevant to the problem of providing seamless, transparent mobility to Internet hosts. We decided to inves ...

28 Middleware: a model for distributed system services

Philip A. Bernstein

February 1996 **Communications of the ACM**, Volume 39 Issue 2Full text available: [pdf\(238.25 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**29 Mariposa: a wide-area distributed database system**

Michael Stonebraker, Paul M. Aoki, Witold Litwin, Avi Pfeffer, Adam Sah, Jeff Sidell, Carl Staelin, Andrew Yu

January 1996 The VLDB Journal — The International Journal on Very Large Data Bases,
Volume 5 Issue 1

Full text available: [pdf\(172.75 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [citations](#), [index terms](#)

The requirements of wide-area distributed database systems differ dramatically from those of local-area network systems. In a wide-area network (WAN) configuration, individual sites usually report to different system administrators, have different access and charging algorithms, install site-specific data type extensions, and have different constraints on servicing remote requests. Typical of the last point are production transaction environments, which are fully engaged during normal business hours.

Keywords: Autonomy, Databases, Distributed systems, Economic site, Name service, Wide-area network

30 Component migration with enterprise JavaBeans (poster session)

Michael Richmond

January 2000 Addendum to the 2000 proceedings of the conference on Object-oriented programming, systems, languages, and applications (Addendum)

Full text available: pdf(53.02 KB) **Additional Information:** full citation, references, index terms

31 Remote evaluation

James W. Stamos, David K. Gifford

October 1990 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 12 Issue 4

Full-text available:  pdf(2.53 MB)

Full text available: [pdf\(2.52 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A new technique for computer-to-computer communication is presented that can increase the performance of distributed systems. This technique, called remote evaluation, lets one computer send another computer a request in the form of a program. A computer that receives such a request executes the program in the request and returns the results to the sending computer. Remote evaluation provides a new degree of flexibility in the design of distributed systems. In present distributed systems th ...

32 Integrating notification services in computer network and mobile telephony

Vittorio Ghini, Giovanni Pau, Paola Salomoni

March 2000 Proceedings of the 2000 ACM symposium on Applied computing

Full text available:  pdf(546.77 KB) **Additional Information:** full citation, references, citations, index terms

Keywords: integration of mobile and stationary systems, mobile applications and services, personal communications

33 Component-based e-commerce: assessment of current practices and future directions

Martin Bichler, Arie Segev, J. Leon Zhao

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Component-based e-commerce technology is a recent trend towards resolving the e-commerce challenge at both system and application levels. Instead of delivering a system as a prepacked monolith system containing any conceivable feature, component-based systems consist of a lightweight kernel to which new features can be added in the form of

components. In order to identify the central problems in component-based e-commerce and ways to deal with them, we investigate prototype ...

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April 1999 **Proceedings of the third annual conference on Autonomous Agents**

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Keywords: electronic commerce, mobile agent, multi agent

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May 1984 **ACM Transactions on Information Systems (TOIS)**, Volume 2 Issue 2

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37 Data management issues for large scale, distributed workflow systems on the Internet

J. Leon Zhao, Akhil Kumar

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The Internet is providing worldwide connectivity for business organizations and has created a much greater opportunity for people to collaborate remotely in an automated workflow setting. However, the speed of delivery of workflow data on the Internet can be unpredictable due to variability in traffic and limited bandwidth. Further, the issue of data management becomes more complex when the system consists of various clients with different system and networking settings. In this paper, we invest ...

Keywords: Internet latency, data delivery techniques, distributed workflow management, prefetching strategy, proactive delivery

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David Sprott

April 2000 **Communications of the ACM**, Volume 43 Issue 4

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Sang Kyun Cha, Jang Ho Park, Byoung Dae Park

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Geoffrey Engerman, Lee Kearney

February 1998 **International Journal of Network Management**, Volume 8 Issue 1

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